



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1716.051000A/TJS/TJEAPPLICATION NO.
10/782,002FIRST NAMED INVENTOR
Miettinen-Oinonen *et al.*FILING DATE
February 20, 2004ART UNIT
1646 *1652*

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>CA</i>	AA1	3,438,864	04/15/1969	Tendler			01/19/1966
	AB1	3,664,961	05/23/1972	Norris			03/31/1970
	AC1	4,106,989	08/15/1978	Komura <i>et al.</i>			04/26/1977
	AD1	4,832,864	05/23/1989	Olson			09/15/1987
	AE1	4,894,338	01/16/1990	Knowles <i>et al.</i>			01/30/1986
	AF1	4,912,056	03/27/1990	Olson			12/08/1988
	AG1	5,006,126	04/09/1991	Olson <i>et al.</i>			09/15/1988
	AH1	5,120,463	06/09/1992	Bjork <i>et al.</i>			04/15/1991
	AI1	5,122,159	06/16/1992	Olson <i>et al.</i>			04/01/1991
	AJ1	5,213,581	05/25/1993	Olson <i>et al.</i>			06/15/1992
<i>CA</i>	AK1	5,232,851	08/03/1993	Cox <i>et al.</i>			10/16/1990

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>CA</i>	AL1	DE 1 767 737	09/23/1971	Germany			Yes X No
	AM1	GB 2 075 028	11/11/1981	Great Britain			Yes No
	AN1	EP 0 220 016	04/29/1987	Europe			Yes No
<i>CA</i>	AO1	EP 0 238 216	09/23/1987	Europe			Yes No
	AP1	EP 0 307 564	03/22/1989	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>CA</i>	AR	1	Aho, S., <i>et al.</i> , "Monoclonal antibodies against core and cellulose-binding domains of <i>Trichoderma reesei</i> cellobiohydrolases I and II and endoglucanase I," <i>Eur. J. Biochem.</i> 200:643-649, Springer International (1991)
<i>I</i>	AS	1	Bailey, M.J. and Nevalainen, K.M.H., "Induction, isolation and testing of stable <i>Trichoderma reesei</i> mutants with improved production of solubilizing cellulase," <i>Enzyme Microb. Technol.</i> 3:153-157, Elsevier (1981)
<i>CA</i>	AT	1	Bhat, K.M., <i>et al.</i> , "The Endo-(1→4)-β-D-glucanase System of <i>Penicillium pinophilum</i> Cellulase: Isolation, Purification, and Characterization of Five Major Endoglucanase Components," <i>Carbohydrate Res.</i> 190:279-297, Elsevier Science Publishers B.V. (1989)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CA	AA2	5,246,853	09/21/1993	Clarkson <i>et al.</i>			03/29/1991
	AB2	5,290,474	03/01/1994	Clarkson <i>et al.</i>			05/30/1991
	AC2	5,298,405	03/29/1994	Nevalainen <i>et al.</i>			05/16/1990
	AD2	5,443,750	08/22/1995	Convents <i>et al.</i>			07/15/1993
	AE2	5,520,838	05/28/1996	Baeck <i>et al.</i>			11/19/1993
	AF2	5,525,507	06/11/1996	Clarkson <i>et al.</i>			03/18/1994
	AG2	5,650,322	07/22/1997	Clarkson <i>et al.</i>			09/30/1992
	AH2	6,001,639	12/14/1999	Schulein <i>et al.</i>			05/21/1996
	AI2	6,184,019	02/06/2001	Miettinen-Oinonen <i>et al.</i>			06/10/1999
CA	AJ2	6,723,549	04/20/2004	Miettinen-Oinonen <i>et al.</i>			04/30/1997
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CA	AL2	WO 89/09259	10/05/1989	WIPO			Yes No
	AM2	EP 0 383 828	08/29/1990	Europe			Yes No
	AN2	EP 0 406 314	01/09/1991	Europe			Yes No
	AO2	WO 91/14822	10/03/1991	WIPO			Yes No
CA	AP2	WO 91/17243	11/14/1991	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CA	AR	2	Bhikhabhai, R., <i>et al.</i> , "Isolation of Cellulolytic Enzymes from <i>Trichoderma reesei</i> QM 9414," <i>J. Appl. Biochem.</i> 6:336-345, Academic Press, Inc. (1984)
	AS	2	Bowle, J.U., <i>et al.</i> , "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," <i>Science</i> 247:1306-1310, American Association for the Advancement of Science (1990)
CA	AT	2	Bühler, R., "Double-Antibody Sandwich Enzyme-Linked Immunosorbent Assay for Quantitation of Endoglucanase I of <i>Trichoderma reesei</i> ," <i>Appl. Environ. Microbiol.</i> 57:3317-3321, American Society for Microbiology (1991)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CA	AL3	WO 91/17244	11/14/1991	WIPO			Yes No
	AM3	WO 92/06165	04/16/1992	WIPO			Yes No
	AN3	WO 92/06210	04/16/1992	WIPO			Yes No
	AO3	WO 92/06209	04/16/1992	WIPO			Yes No
CA	AP3	WO 92/06221	04/16/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CA	AR	3	Commission on Biotechnology, <i>Measurement of Cellulase Activities</i> , Commission on Biotechnology, International Union of Pure and Applied Chemistry, Indian Institute of Technology, Delhi, 17 pages (1984)
/	AS	3	Davies, G.J., <i>et al.</i> , "Structure and function of endoglucanase V," <i>Nature</i> 365:362-364, Nature Publishing Company (1993)
CA	AT	3	El-Gindy, A.A., "Production of Cellulase(s) by <i>Myriococcum albomyces</i> ," <i>Zentralbl. Mikrobiol.</i> 146:193-196, Gustav Fischer Verlag Jena (1991)

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<i>CA</i>	AL4	WO 92/17574	10/15/1992	WIPO			Yes No
	AM4	WO 92/17572	10/15/1992	WIPO			Yes No
	AN4	EP 0 510 091	10/28/1992	Europe			Yes No
	AO4	WO 92/18599	10/29/1992	WIPO			Yes No
<i>CA</i>	AP4	EP 0 521 999	01/13/1993	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>CA</i>	AR	<u>4</u>	Harkki, A., <i>et al.</i> , "Genetic engineering of <i>Trichoderma</i> to produce strains with novel cellulase profiles," <i>Enzyme Microb. Technol.</i> 13:227-233, Elsevier (1991)
	AS	<u>4</u>	Henrissat, B. and Bairoch, A., "New families in the classification of glycosyl hydrolases based on amino acid sequence similarities," <i>Biochem. J.</i> 293:781-788, The Biochemical Society (1993)
<i>CA</i>	AT	<u>4</u>	Karhunen, T., <i>et al.</i> , "High frequency one-step gene replacement in <i>Trichoderma reesei</i> . I. Endoglucanase I overproduction," <i>Mol. Gen. Genet.</i> 241:515-522, Springer Verlag (1993)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CA	AL5	EP 0 531 372	03/17/1993	Europe			Yes No
	AM5	WO 93/11249	06/10/1993	WIPO			Yes No
	AN5	WO 93/22428	11/11/1993	WIPO			Yes No
	AO5	WO 93/24621	12/09/1993	WIPO			Yes No
CA	AP5	WO 93/24622	12/09/1993	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CA	AR	5	Klahorst, S., <i>et al.</i> , "Optimizing the Use of Cellulases for Denim Finishing," AATCC Int. Conf. & Exhibit, Atlanta, GA, pp. 243 (1992)				
	AS	5	Klahorst, S., <i>et al.</i> , "Optimizing the Use of Cellulase Enzymes," Textile Chemist and Colorist 26:13-18, Enzyme Technical Association (February 1994)				
CM	AT	5	Kochavi, D., <i>et al.</i> , "Optimizing Processing Conditions in Enzymatic Stonewashing," Am. Dyestuff Reporter 79:24, 26, 28, SAF Publications Inc. (1990)				

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>CA</i>	AL6	EP 0 576 526	01/05/1994	Europe			Yes No
	AM6	WO 94/07983	04/14/1994	WIPO			Yes No
	AN6	WO 94/07998	04/14/1994	WIPO			Yes No
	AO6	WO 94/14953	07/07/1994	WIPO			Yes No
<i>CA</i>	AP6	WO 94/23113	10/13/1994	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>CA</i>	AR	<u>6</u>	Lange, N.K., "Application of cellulases in the textile industry," in: <i>Trichoderma ressel Cellulases and Other Hydrolases</i> , Suominen, P. and Reinikainen, T., eds., Foundation for Biotechnical and Industrial Fermentation Research, Espoo, Finland, pp. 263-272 (1993)
<i>CA</i>	AS	<u>6</u>	Lantto, R., <i>et al.</i> , "Backstaining in Denim Wash With Different Cellulases," <i>Am. Dyestuff Reporter</i> 85:64-65, 72, SAF Publications Inc. (August 1996)
<i>CA</i>	AT	<u>6</u>	Latif, F., <i>et al.</i> , "Saccharification of <i>Leptochloa fusca</i> (Kallar Grass Straw) Using Thermostable Cellulases," <i>Biores. Technol.</i> 50:107-111, Elsevier Science Ltd. (July 1994)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CA	AL7	WO 95/02675	01/26/1995	WIPO			Yes No
	AM7	WO 95/16782	06/22/1995	WIPO			Yes No
	AN7	WO 95/24471	09/14/1995	WIPO			Yes No
	AO7	WO 95/25840	09/28/1995	WIPO			Yes No
CA	AP7	WO 96/17994	06/13/1996	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CA	AR	1	Mach, R.L., <i>et al.</i> , "Transformation of <i>Trichoderma reesei</i> based on hygromycin B resistance using homologous expression signals," <i>Curr. Genet.</i> 25:567-570, Springer International (June 1994)
	AS	1	Mandels, M. and Reese, E.T., "Induction of Cellulase in <i>Trichoderma Viride</i> as Influenced by Carbon Sources and Metals," <i>J. Bacteriol.</i> 73:269-278, The Williams & Wilkins Company (1957)
CA	AT	1	Mattern, I.E., <i>et al.</i> , "Transformation of <i>Aspergillus Oryzae</i> ," in: <i>Abstracts of the 19th Lanteren Lectures on Molecular Genetics of Yeasts and Filamentous Fungi and its Impact on Biotechnology</i> , p. 34 (1987)

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	AL8	WO 96/29397	09/26/1996	WIPO			Yes No
	AM8	WO 96/34945	11/07/1996	WIPO			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>8</u>	Miettinen-Oinonen, A., "Effects of Cellulases on Cotton Fiber and Fabric," <i>Proc. Of the 77th World Conf. of the Textile Inst.</i> 1:197-207, The Textile Institute (May 1996)
	AS	<u>8</u>	Moloney, A.P., "Cellulose Hydrolysis by the Cellulases Produced by <i>Talaromyces emersonii</i> when Grown on Different Inducing Substrates," <i>Biotechnol. & Bioeng.</i> 25:1169-1173, John Wiley & Sons, Inc. (1983)
	AT	<u>8</u>	Nevalainen, H., "Genetic improvement of enzyme production in industrially important fungal strains," Presented at <i>The University of Helsinki, VTT, Technical Research Centre of Finland, Publications 26, Espoo, Finland, pp. 3-58 (1985)</i>

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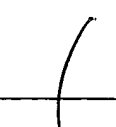

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	9	Nilsson, T.E., "Enzymes for the Textile Industry - Traditional and New Applications," Presented at <i>Aachen Textile Conference</i> , November 1994, published in <i>DWI Reports</i> 114:85-88, Das Institut (February 1995)
	AS	9	Offord, D.A., <i>et al.</i> , "Preparative Purification of <i>Trichoderma reesei</i> Native and "Core" Cellobiohydrolase I by Electrophoresis and Chromatofocusing," <i>Appl. Biochem. & Biotechnol.</i> 28/29:377-386, The Humana Press (1991)
	AT	9	Penttilä, M., <i>et al.</i> , "Homology between cellulase genes of <i>Trichoderma reesei</i> : complete nucleotide sequence of the endoglucanase I gene," <i>Gene</i> 45:253-263, Elsevier Science Publishers B.V. (1986)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CA	AR	10	Penttilä, M., <i>et al.</i> , "A versatile transformation system for the cellulolytic filamentous fungus <i>Trichoderma reesei</i> ," <i>Gene</i> 61:155-164, Elsevier Science Publishers B.V. (1987)
/	AS	10	Saloheimo, M., <i>et al.</i> , "EGIII, a new endoglucanase from <i>Trichoderma reesei</i> : the characterization of both gene and enzyme," <i>Gene</i> 63:11-21, Elsevier Science Publishers B.V. (1988)
CP	AT	10	Saloheimo, A., <i>et al.</i> , "A novel, small endoglucanase gene, <i>egl5</i> , from <i>Trichoderma reesei</i> isolated by expression in yeast," <i>Molec. Microbiol.</i> 13:219-228, Blackwell Scientific Publications (1994)

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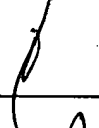

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	AL						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>11</u>	Schindler, M., <i>et al.</i> , "Characterization of the pyruvate kinase-encoding gene (pkil) of <i>Trichoderma reesei</i> ," <i>Gene</i> 130:271-275, Elsevier Science Publishers B.V. (1993)
	AS	<u>11</u>	Schüle, M., "Cellulases of <i>Trichoderma reesei</i> ," <i>Meth. Enzymol.</i> 160:234-242, Academic Press, Inc. (1988)
	AT	<u>11</u>	Schüle, M., <i>et al.</i> , "Humicola insolens Alkaline Cellulases," In: <i>Proceedings of the Second TRICEL symposium on Trichoderma reesei Cellulases and Other Hydrolases</i> , Suominen, P. and Reinikainen, T., eds., Foundation for Biotechnical and Industrial Fermentation Research, Espoo, Finland, pp. 109-116 (1993)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CA	AR	12	Shoemaker, S., <i>et al.</i> , "Molecular Cloning of Exo-Cellobiohydrolase I Derived from <i>Trichoderma reesei</i> Strain L27," <i>Bio/Technol.</i> 1:691-696, Nature Publishing Company (1983)
(AS	12	Suominen, P.L., <i>et al.</i> , "High frequency one-step gene replacement in <i>Trichoderma reesei</i> . II. Effects of deletions of individual cellulase genes," <i>Mol. Gen. Genet.</i> 241:523-530, Springer-Verlag (1993)
CP	AT	12	Teeri, T., <i>et al.</i> , "The Molecular Cloning of the Major Cellulase Gene from <i>Trichoderma reesei</i> ," <i>Bio/Technol.</i> 1:696-699, Nature Publishing Company (1983)

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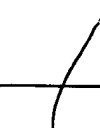

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1648-1052**U.S. PATENT DOCUMENTS**

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	AR	13	Teeri, T. T., "The cellulolytic enzyme system of <i>Trichoderma reesei</i> : Molecular cloning, characterization and expression of the cellobiohydrolase genes," <i>Presented at the University of Helsinki, VTT, Technical Research Centre of Finland Publications</i> 38, Espoo, Finland, pp. 1-52 (1987)
	AS	13	Teeri, T., <i>et al.</i> , "Homologous domains in <i>Trichoderma reesei</i> cellulolytic enzymes: gene sequence and expression of cellobiohydrolase II," <i>Gene</i> 51:43-52, Elsevier Science Publishers B.V. (1987)
	AT	13	Tomme, P., <i>et al.</i> , "Studies of the cellulolytic system of <i>Trichoderma reesei</i> QM 9414: Analysis of domain function in two cellobiohydrolases by limited proteolysis," <i>Eur. J. Biochem.</i> 170:575-581, Blackwell Science Ltd. (1988)

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<i>CP</i>	AR	<u>14</u>	Tyndall, R.M., "Application of Cellulase Enzymes to Cotton Fabrics and Garments," <i>AATCC Book of Papers: 1991 International Conference & Exhibition</i> , American Association of Textile Chemists and Colorists, Research Triangle Park, NC, pp. 269-273 (1991)
<i>/</i>	AS	<u>14</u>	Tyndall, R. M., "Improving the Softness and Surface Appearance of Cotton Fabrics and Garments by Treatment with Cellulase Enzymes," <i>Textile Chemist & Colorist</i> 24:23-26, Enzyme Technical Association (1992)
<i>CP</i>	AT	<u>14</u>	van Tilbeurgh, H., <i>et al.</i> , "Fluorogenic and Chromogenic Glycosides as Substrates and Ligands of Carbohydrates," <i>Methods Enzymol.</i> 160:45-59, Academic Press (1988)

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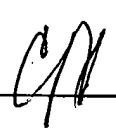
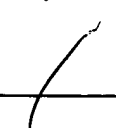

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	AR	15	Videbaek, T., <i>et al.</i> , "The jeans effect comes into being," <i>ITB Dyeing/Printing/Finishing</i> 1:25-29, Bandung Institute of Technology (1994)
	AS	15	Wood, T.M., <i>et al.</i> , "Aerobic and Anaerobic Fungal Cellulases, with Special Reference to Their Mode of Attack on Crystalline Cellulose," in: <i>Biochemistry and Genetics of Cellulose Degradation</i> , Aubert, J.-P., <i>et al.</i> , eds., Academic Press, London, UK, pp. 31-52 (1988)
	AT	15	"Celluzyme™," Product Sheet, Detergent Enzymes Division, Novo Nordisk A/S, 2 pages (date unknown)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	16	"Denimax™ T," Product Sheet, Enzyme Process Division, Novo Nordisk A/S, 1 page (date unknown)
	AS	16	"Denimax™ L," Product Sheet, Enzyme Process Division, Novo Nordisk A/S, 1 page (date unknown)
	AT	16	"Denimax™ PB," Product Sheet, Enzyme Process Division, Novo Nordisk A/S, 1 page (date unknown)

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CA	AR	17	"Denimax® BT," Product Sheet, NOVO Enzyme Process Division, Novo Nordisk A/S, 1 page (date unknown)
1	AS	17	Copy of International Search Report for International Patent Appl. No. PCT/FI96/00550, mailed February 14, 1997, European Patent Office, Netherlands
CA	AT	17	Biotechnology Abstracts, Accession No. 91-08942, abstract for El-Gindy, A.A., "Production of cellulase(s) by <i>Myriococcum albomyces</i> ," <i>Zbl. Mikrobiol.</i> 146:193-196, Gustav Fischer Verlag Jena (1991) (Document AT3)

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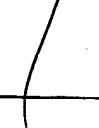

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	AR	18	Biotechnology Abs., Accession No. 95-04270, Abstract for Latif, F., <i>et al.</i> , "Saccharification of <i>Leptochloa fusca</i> (Kallar Grass Straw) Using Thermostable Cellulases," <i>Biores. Technol.</i> 50:107-111, Elsevier Science Ltd. (1994) (Document AT6)
	AS	18	STNEasy Database, Accession No. DE1767737, no English abstract available for DE 1 767 737 (Document AL1)
	AT	18	Copy of co-pending U.S. Application No. 10/825,378, inventors Miettinen-Oinonen <i>et al.</i> , filed April 16, 2004 (Not Published)

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